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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/580,722	05/24/2006	CN03 0036 US1	6472	
65913 NXP , B.V.	7590 01/02/200	EXAMINER		
NXP INTELLE	ECTUAL PROPERTY	SARWAR, BABAR		
M/S41-SJ 1109 MCKAY	DRIVE	ART UNIT	PAPER NUMBER	
SAN JOSE, CA	x 95131	2617		
		NOTIFICATION DATE	DELIVERY MODE	
			01/02/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ip.department.us@nxp.com

		Application No. Applicant(s)							
Office Action Summary			10/580,722		LI ET AL.				
			Examiner		Art Unit				
			BABAR SAR	WAR	2617				
Period fo	The MAILING DATE of this commun r Reply	nication appe	ears on the c	over sheet with the c	orrespondence ad	ddress			
WHIC - Exten after 9 - If NO - Failur Any re	DRTENED STATUTORY PERIOD F HEVER IS LONGER, FROM THE IN sions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this come period for reply is specified above, the maximum s e to reply within the set or extended period for reply apply received by the Office later than three months d patent term adjustment. See 37 CFR 1.704(b).	MAILING DA s of 37 CFR 1.136 munication. tatutory period will y will, by statute, of	TE OF THIS 6(a). In no event, ill apply and will e cause the applica	COMMUNICATION however, may a reply be tin xpire SIX (6) MONTHS from tion to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).				
Status									
1) 又	Responsive to communication(s) file	ed on <i>24 Ma</i>	av 2006						
'=	Responsive to communication(s) filed on <u>24 May 2006</u> . This action is FINAL . 2b) This action is non-final.								
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•	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
4\\\\\\\	Claim(s) 1-24 is/are pending in the	annlication							
•	Claim(s) <u>1-24</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
·	5) Claim(s) is/are allowed.								
·	6)⊠ Claim(s) <u>1-24</u> is/are rejected. 7)⊡ Claim(s) is/are objected to.								
•	Claim(s) are subject to restri	ction and/or	election rea	uirement					
0)[Claim(3) are subject to resur	ction and/or	election req	unement.					
Application	on Papers								
9) 🔲 -	The specification is objected to by th	ne Examiner.							
10)🛛 -	The drawing(s) filed on <u>24 May 200</u> 6	<u>6</u> is/are∶ a)[∑	accepted	or b)⊡ objected to l	by the Examiner.				
	Applicant may not request that any obje	ection to the d	Irawing(s) be	held in abeyance. See	e 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) 🔲 -	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	nder 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (Ination Disclosure Statement(s) (PTO/SB/08) • No(s)/Mail Date		4 5 6	 	ate				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-9, 16-20 are rejected under 35 U.S.C. 102 (e) as being anticipated by Jechoux et al. (US 2007/0030885 A1), hereinafter referenced as Jec.

Consider claim 1, Jec discloses a method for supporting downlink JD (joint detection) in a TDD CDMA communication network system (Abstract, 0004, 0015-0018). Jec further teaches that (a) judging whether the CAI (code allocation information) in a downlink timeslot will change in the next TTI (transmission time interval) (Abstract, Para 0017-0019, where Jec discloses midambles and transmission parameters respectively allocated to mobile stations); (b) inserting the changed CAI as a specific control information into a specified field in the traffic burst in the downlink timeslot corresponding to current TTI if the CAI will change; and (c) sending the traffic burst containing the specific control information to each UE (user equipment) in the downlink timeslot via a downlink channel (Abstract, Para 0003-0007, 0015-0028, 0038-0041, 0043-0051 figs. 1-3, 5-6).

Consider **claim 2**, Jec discloses everything claimed as implemented above (see claim 1). In addition, Jec teaches that when establishing connection with a UE, the network system sends the initial CAI to the UE (Abstract, 0023-0024).

Consider **claim 3**, Jec discloses everything claimed as implemented above (see claim 2). In addition, Jec teaches that wherein step further includes (a) (al) judging that the CAI changes if at least one active UE leaves the downlink timeslot, (a2) reclaiming the spreading code resource released by the UE; wherein the changed CAI in step (b) is the CAI after the spreading code resource is reclaimed (Abstract, Para 0003-0007, 0015-0028, 0038-0041, figs. 3, 5-6).

Consider **claim 4**, Jec discloses everything claimed as implemented above (see claim 2). In addition, Jec teaches that the step (a) further includes: (a I) judging that the CAI changes if at least one UE joins the downlink timeslot; (a2) allocating spreading code resource to the UE; wherein the changed CAI in step (b) is the CAI after the spreading code resource is allocated (Abstract, Para 0003-0007, 0015-0028, 0038-0041, figs. 3, 5-6).

Consider **claim 5**, Jec discloses everything claimed as implemented above (see claim 2). In addition, Jec teaches that the step (a) further includes: (a I) judging that the CAI changes if the spreading code resource in the downlink timeslot is reallocated to realize optimized configuration of the resource in the downlink timeslot; wherein the changed CAI in step (b) is the CAI after the spreading code resource is reallocated (Abstract, Para 0003-0007, 0015-0028, 0038-0041, figs. 3, 5-6).

Consider **claim 6**, Jec discloses everything claimed as implemented above (see claim 2). In addition, Jec teaches that the specific control information allows each UE in the downlink timeslot to perform one of the two JD methods of ZF-BLE and MMSE-BLE (Para 0017, 0018).

Claim 7, as analyzed with respect to limitations as discussed in claim 1.

Claim 8, as analyzed with respect to limitations as discussed in claim 2.

Claim 9, as analyzed with respect to limitations as discussed in claim 6.

Claim 16, as analyzed with respect to limitations as discussed in claim 1.

Claim 17, as analyzed with respect to limitations as discussed in claim 2.

Claim 18, as analyzed with respect to limitations as discussed in claim 3.

Claim 19, as analyzed with respect to limitations as discussed in claim 1.

Claim 20, as analyzed with respect to limitations as discussed in claim 2.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States

Claims 10-15, 21-24 are rejected under 35 U.S.C. 102(b) as being anticipated by Jechoux et al. (EP 1143638 A1), hereinafter referenced as Jec.

Consider **claim 10**, Jec teaches a method for supporting downlink single-user JD in a TDD CDMA communication network system (Abstract, -00030004, 0014-0018). Jec further discloses that (a) judging whether the ACN (active code number) in a downlink timeslot will change in the next TTI (Abstract, where Jec talks about spreading codes,

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midambles, and transmission parameters); (b) inserting the changed ACN as a specific control information into a specified field in the traffic burst in downlink timeslot corresponding to current TTI if the ACN will change; (c) sending the traffic burst containing the specific control information to each UE in the downlink timeslot via downlink channel (A abstract, Para 0003-0017, 0021-0046, figs. 3, 5-11).

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Consider **claim 11**, Jec discloses everything claimed as implemented above (see claim 10). In addition, Jec teaches that the network system sends the initial ACN to the UE when the network system establishes connection with the UE (Abstract, 0012-0013).

Consider **claim 12**, Jec discloses everything claimed as implemented above (see claim 11). In addition, Jec teaches that the specific control information allows each UE in the downlink timeslot to perform an MMSE-BLE-SD JD algorithm (Para 0014-0017).

Claim 13, as analyzed with respect to limitations as discussed in claim 10.

Claim 14, as analyzed with respect to limitations as discussed in claim 11.

Claim 15, as analyzed with respect to limitations as discussed in claim 12.

Claim 21, as analyzed with respect to limitations as discussed in claim 10.

Claim 22, as analyzed with respect to limitations as discussed in claim 11.

Claim 23, as analyzed with respect to limitations as discussed in claim 10.

Claim 24, as analyzed with respect to limitations as discussed in claim 11.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BABAR SARWAR whose telephone number is

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(571)270-5584. The examiner can normally be reached on MONDAY TO FRIDAY 09:30 A.M -05:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, NICK CORSARO can be reached on (571)272-7876. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/BS/

/BABAR SARWAR/ Examiner, Art Unit 2617

/NICK CORSARO/ Supervisory Patent Examiner, Art Unit 2617